## **WHAT IS CLAIMED IS:**

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1. An image transfer printing apparatus, comprising: a member having an imaging transfer surface;

an applicator assembly distributing a liquid layer onto the imaging transfer surface to produce an intermediate transfer surface; said applicator assembly including a porous member having a core, said core having openings defined therein, a liquid supply system connected to said core for supplying liquid to saturate said porous member.

- 2. The image transfer printing apparatus of claim 1, further comprising means for supporting said porous member in contact with said member to release and form said liquid layer.
- 3. The image transfer printing apparatus of claim 1, further comprising an ink-jet printhead depositing a molten phase-change ink in a phase-change ink image on the intermediate transfer surface; and

means for transferring the phase change ink from the intermediate transfer surface to a receiving medium.

- 4. The image transfer printing apparatus of claim 1, further comprising a replenishing system associated with said liquid supply system, for maintaining said porous member impregnated with a predefined amount of liquid.
- 5. The image transfer printing apparatus of claim 4, wherein said replenishing system includes a sensing system for sensing an amount of liquid impregnated in said porous member.

6. The image transfer printing apparatus of claim 5, wherein said replenishing system includes a controller, responsive to said sensing system, for activating said liquid supply system when said porous member is impregnated with liquid below said predefined amount of liquid.

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7. The image transfer printing apparatus of claim 6, wherein said sensing system includes means for sensing mass of said porous member and generating a signal indicative of the amount of liquid impregnated in said porous member.

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- 8. The image transfer printing apparatus of claim 1, wherein said porous member is a foam roller.
- 9. The image transfer printing apparatus of claim 1, wherein said member is an imaging member.
  - 10. The image transfer printing apparatus of claim 1, wherein said member is a fuser member.
- 20 11. A printing apparatus, comprising:

a member having an imaging transfer surface;

an applicator assembly distributing a liquid layer onto the imaging transfer surface to produce an intermediate transfer surface; said applicator assembly including a porous member having a core, said core having openings defined therein, a liquid supply system connected to said core for supplying liquid to saturate said porous member.

- 12. The printing apparatus of claim 11, further comprising means for supporting said porous member in contact with said member to release and form said liquid layer.
- 13. The printing apparatus of claim 11, further comprising an ink-jet printhead depositing a molten phase-change ink in a phase-change ink image on the intermediate transfer surface; and

means for transferring the phase change ink from the intermediate transfer surface to a receiving medium.

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- 14. The printing apparatus of claim 11, further comprising a replenishing system associated with said liquid supply system, for maintaining said porous member impregnated with a predefined amount of liquid.
- 15. The printing apparatus of claim 14, wherein said replenishing system includes a sensing system for sensing an amount of liquid impregnated in said porous member.
- 16. The printing apparatus of claim 15, wherein said replenishing system includes a controller, responsive to said sensing system, for activating said liquid supply system when said porous member is impregnated with liquid below said predefine amount of liquid.
- 17. The printing apparatus of claim 16, wherein said sensing system includes means for sensing mass of said porous member and generating a signal indicative of the amount of liquid impregnated in said porous member.
- 18. The printing apparatus of claim 11, wherein said porous member is a foam roller.

- 19. The printing apparatus of claim 11, wherein said member is an imaging member.
- 5 20. The printing apparatus of claim 11, wherein said member is a fuser member.